

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave. St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-011349**Date Inspected:** 11-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 645**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1845**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Mr. Liu Hua Jie**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance Inspector (QA), Vibin Kumar Selvanayaham, was present during the times noted above for observations relative to the work being performed.

Magnetic Particle Testing (MT) - Document No's: 005043

This QA inspector performed MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

1. BP3017-001-001~003
2. BP026-015-001~003

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This QA inspector observed ZPMC qualified welding personnel identified as 037840 perform Shielded Metal Arc Welding (SMAW) Welding on Corner Assembly, weld joint identified as CA3009C-039 & 040. ZPMC QC is identified as Mr. Li Ming Yang. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2114-FCM-1.

This QA inspector observed ZPMC qualified welding personnel identified as 048686 perform Submerged Arc Welding (SAW) Welding on Segment 12AW, weld joint identified as SEG3004AL\*-013 & 14. ZPMC QC is

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identified as Mr. Wang Xu. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2221-B-L2c-S-2.

This QA inspector observed ZPMC qualified welding personnel identified as 044771 perform SAW Welding on Segment 12CE, weld joint identified as SEG3003\*-006. ZPMC QC is identified as Mr. Zhong Guo Hui. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2221-B-L2c-S-2.

This QA inspector observed ZPMC qualified welding personnel identified as 045175 perform Flux Cored Arc Welding (FCAW) welding on Deck Panel, weld joint identified as DP106-001-010 & 011. ZPMC QC is identified as Mr. Li Ming Yang. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132.

This QA inspector observed ZPMC qualified welding personnel identified as 045175 perform Flux Cored Arc Welding (FCAW) welding on Deck Panel, weld joint identified as DP133-001-012 & 013. ZPMC QC is identified as Mr. Li Ming Yang. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132.

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This QA inspector observed ZPMC qualified welding personnel identified as 062783 & 062765 perform FCAW welding on Suspender Bracket, weld joint identified as SB007-036-004, 007 & 008. ZPMC QC is identified as Mr. Zhou Cheng. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2232-Tc-U4b-F.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.

### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang - 15000422372, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Kumar,Vibin	Quality Assurance Inspector
<b>Reviewed By:</b>	Hall,Steven	QA Reviewer

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